

Amendments to the Claims

Listing of the Claims

This listing of claims will replace all prior versions and listings of claims in the application.

(currently amended) 1. [a]An electronic device for acquiring, storing, and displaying data comprising:

a control unit comprising:

a processor having a read only memory for storing processor instructions, a random access memory for storing data, and having a plurality of data output channels;

a plurality of sensor inputs for accepting data signals;

a plurality of push buttons electrically coupled to the processor for configuring a plurality of user-configurable parameters;

a visual display having an input coupled to a data output channel from the processor for displaying data in a graphical format and operator interface menus;

a speaker electrically connected to the processor alarm output for producing an audible alarm;

a real-time clock for timing intervals between data samples and time-stamping the samples; and

a serial port for transmitting and receiving data to and from a remote device; and

a plurality of data sensors responsive to a measurable variable, said sensors each having an output representative of said physical variable coupled to [a] one of the sensor inputs of said control unit[.], wherein said control unit further comprises a power management system for supplying operating power to said plurality of data sensors only at predetermined data sampling intervals.

2. (original) An electronic device for acquiring, storing, and displaying data as claimed in

claim 1 wherein said user-configurable parameters include data sampling intervals, display ranges, high and low alarm values, display intervals, and sensor types.

3. (original) An electronic device for acquiring, storing, and displaying data as claimed in claim 1 wherein said control unit further comprises at least one alarm output for triggering a remote alarm.

4. (original) An electronic device for acquiring, storing, and displaying data as claimed in claim 3 wherein said alarm output is activated responsive to at least one user-configured alarm value.

5. (cancelled)

6. (original) An electronic device for acquiring, storing and displaying data as claimed in claim 1 wherein the visual display is capable of displaying historical data supplied by said plurality of data sensors responsive to a push button being selected.

7. (original) An electronic device for acquiring, storing and displaying data as claimed in claim 1 wherein said control unit further comprises an output port for transmitting and receiving data to and from a remote device.

8. (original) An electronic device for acquiring, storing and displaying data as claimed in claim 1 wherein the display graphically represents a plurality of data values in each display column.

9. (original) An electronic device for acquiring, storing and displaying data as claimed in claim 1 wherein the display graphically represents data supplied by any one of said plurality of data sensors responsive to a push button selection.

10. (original) An electronic device for acquiring, storing and displaying data as claimed in claim 1 wherein the display graphically represents a statistical value of a plurality of data samples taken from said plurality of sensors in each display interval.

11. (cancelled)

12. (cancelled)

13. (cancelled)

14. (cancelled)

15. (cancelled)

16. (cancelled)

17. (cancelled)

18. (cancelled)

19. (cancelled)

20. (cancelled)

21. (new): An electronic device for acquiring, storing and displaying data as claimed in claim 1 wherein each column of the visual display graphically represents a hi and low data value pair.

22 (new): An electronic device for acquiring, storing and displaying data as claimed in claim 1 wherein each column of the visual display graphically represents a plurality of data sample values representative of a statistical function configured by a user.